

CLAIMS

I CLAIM:

- 5 1. A plastic frame assembly for bearing weight comprising:
- a) a plastic support member having a bottom portion and a top portion;
 said bottom portion having a channel;
- b) a plastic-affiliating migratory securing means; and
- c) a flexible porous membrane;
- 10 wherein said plastic affiliating migratory securing means is applied to
 said channel and said flexible porous membrane is positioned on top of
 said channel and forced into said channel whereby said plastic
 affiliating migratory securing means migrates through said flexible
 porous membrane and secures said flexible porous membrane to said
15 bottom portion of said plastic support member; said top portion of said
 plastic support member registering with said bottom portion in such a
 way so that said flexible porous membrane is held in place only by said
 plastic affiliating migratory securing means.
- 20 2. A plastic frame assembly for bearing weight as claimed in claim 1
 further comprising a plastic setting member wherein said plastic setting
 member is positioned within said channel on top of said flexible porous
 membrane to force said flexible, porous membrane into said channel
 for securement to said bottom portion of said plastic support member.
- 25 3. A plastic frame assembly for bearing weight as claimed in claim 2
 wherein said plastic setting member adheres to said flexible porous
 membrane as said plastic-affiliating migratory securing means migrates
 through said flexible porous membrane and contacts said plastic
 setting member.

4. A plastic frame assembly for bearing weight as claimed in claim 2 wherein said plastic setting member is a flexible plastic spline sized to contour fit into said channel.
5. A plastic frame assembly for bearing weight as claimed in claim 2 wherein said flexible porous membrane is a plastic fabric.
6. A plastic frame assembly for bearing weight as claimed in claim 5 wherein said plastic fabric is a woven mesh polyester fabric.
7. A plastic frame assembly for bearing weight as claimed in claim 2 wherein said plastic-affiliating migratory securing means is a plastic, two-part adhesive.
8. A plastic frame assembly for bearing weight as claimed in claim 2 wherein said plastic frame assembly is applied to a chair.
9. A plastic frame assembly for bearing weight as claimed in claim 2 wherein said plastic frame assembly is applied to a bench or couch.
10. A method for assembling a plastic frame assembly for bearing weight, said plastic frame assembly having a plastic support member having a channel; a plastic-affiliating migratory securing means; and a flexible porous membrane and a plastic setting member, comprising:
 - (a) applying to said channel, said plastic affiliating migratory securing means;
 - (b) positioning upside down on a top ram assembly said plastic support member, said plastic support member secured to said top ram assembly by spring pins;
 - (c) positioning on a plate a series of adjustable pins to match the contour of said plastic support member, said plate positioned directly below said top ram assembly;

- (d) securing said plastic setting member above said adjustable pins by spring-loaded hooks;
- (e) stretching said flexible porous membrane above said plastic setting member;
- 5 (f) moving said top ram assembly downwardly wherein said series of adjustable pins contact said plastic setting member releasing said spring-loaded hooks, said series of adjustable pins forcing said plastic setting member and said flexible porous membrane into said channel for contact with said plastic affiliating migratory
- 10 securing means in said channel of said plastic support member;
- (g) releasing said top ram assembly whereby said flexible porous membrane is adhered to said plastic support member on said top ram assembly.
11. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 10 further comprising stretching said flexible porous
- 15 membrane to a preferred tension by a series of clamps.
12. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 11 further comprising releasing said clamps and trimming said flexible porous membrane to a desired size.
- 20 13. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 12 wherein said series of adjustable pins are a single row of pins having contoured heads to register with the contoured shape of said plastic setting member.
- 25 14. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 13 wherein said pins maintain and control the movement of said plastic setting member into said channel and aid in maintaining said shape of said plastic setting member.

- 5 15. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 14 wherein said pins hold and position said flexible porous membrane within said channel for a maximum of two minutes to allow for said plastic-affiliating migratory securing means to migrate through said flexible porous membrane to secure said flexible porous membrane to said plastic support member.
- 10 16. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 10 wherein said plastic support member further comprises a bottom portion and a top portion wherein said bottom portion has said channel.
- 15 17. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 16 wherein said top portion of said plastic support member registers with said bottom portion in such a way so that said flexible porous membrane is held in place only by said plastic affiliating migratory securing means.
- 20 18. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 17 wherein said top ram applies sufficient pressure to said plate to ensure said flexible porous membrane is forced into said channel.
19. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 18 applied to a chair.
20. A method for assembling a plastic frame assembly for bearing weight as claimed in claim 18 applied to a bench or sofa.